

## IN THE ABSTRACT:

Please replace the current abstract with the following amended replacement abstract:

A robot simulation device is provided. It includes a virtual robot working environment in which a virtual robot has a task of transferring a virtual object from a start point to a goal point, the simulation device determining the path of travel. A task simulation is executed in response to the virtual robot working environment and the path of travel. The task simulation determines a robot activity region where the virtual robot can operate and an interference region where the virtual robot encounters obstacles. Thereafter the device creates a desired executed simulation in which the virtual robot can operate without encountering obstacles.

~~A robot simulation device, capable of simulating if a robot can transfer an object without any interference in a working space where obstacles are disposed.~~

~~—The device comprises of an input device, a display, a processing unit, computing programs and an output device of teaching programs. And the device further comprises of:~~

- ~~(1) a two-dimensional display part having coordinate axes;~~
- ~~(2) a means of displaying the obstacles and working space; a means of displaying a path of the moving robot, and a means of displaying the transferred object by the robot, on the display;~~
- ~~(3) a means of interpolating the path by designating moving points of a central point of the moving transferred object;~~
- ~~(4) a means of displaying the path of the moving transferred object in the working space; and~~
- ~~(5) a means of displaying a region where the path interferes with the obstacles.~~